

*West Virginia Department of Environmental Protection*

*Joe Manchin, III*  
Governor

*Division of Air Quality*

*Randy C. Huffman*  
Cabinet Secretary

# Permit to Construct



**R13-2850**

*This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45 C.S.R. 13 — Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The permittee identified at the facility listed below is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.*

Issued to:  
**Argonaut BioEnergy**  
**Mt. Nebo**  
**067-00106**

---

*John A. Benedict*  
Director

*Issued: DRAFT • Effective: DRAFT*

Facility Location: Mr. Nebo, Nicholas County, West Virginia  
Mailing Address: PO Box 965  
Louisa, VA 23093  
Facility Description: 100,000 ton per year wood pellet manufacturing facility  
SIC Codes: 2499  
UTM Coordinates: 513.05 km Easting • 4,229.36 km Northing • Zone 17  
Permit Type: Construction

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

---

*As a result of the granting of this permit, the source is not subject to 45CSR30.*

## Table of Contents

<b>1.0.</b>	<b>Emission Units .....</b>	<b>3</b>
<b>2.0.</b>	<b>General Conditions .....</b>	<b>5</b>
2.1.	Definitions .....	5
2.2.	Acronyms .....	5
2.3.	Authority .....	6
2.4.	Term and Renewal .....	6
2.5.	Duty to Comply .....	6
2.6.	Duty to Provide Information .....	6
2.7.	Duty to Supplement and Correct Information .....	7
2.8.	Administrative Permit Update .....	7
2.9.	Permit Modification .....	7
2.10.	Major Permit Modification .....	7
2.11.	Inspection and Entry .....	7
2.12.	Emergency .....	7
2.13.	Need to Halt or Reduce Activity Not a Defense .....	8
2.14.	Suspension of Activities .....	8
2.15.	Property Rights .....	8
2.16.	Severability .....	9
2.17.	Transferability .....	9
2.18.	Notification Requirements .....	9
2.19.	Credible Evidence .....	9
<b>3.0.</b>	<b>Facility-Wide Requirements .....</b>	<b>10</b>
3.1.	Limitations and Standards .....	10
3.2.	Monitoring Requirements .....	10
3.3.	Testing Requirements .....	10
3.4.	Recordkeeping Requirements .....	11
3.5.	Reporting Requirements .....	12
<b>4.0.</b>	<b>Source-Specific Requirements .....</b>	<b>14</b>
4.1.	Limitations and Standards .....	14
4.2.	Testing Requirements .....	16
4.3.	Monitoring and Recordkeeping Requirements .....	16
4.4.	Reporting Requirements .....	17
<b>CERTIFICATION OF DATA ACCURACY .....</b>		<b>18</b>

## 1.0 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
<b>2S</b>	<b>EP-01</b>	<b>Chipping and Storage</b>	<b>2010</b>	<b>27 TPH</b>	<b>High Eff. Cyclone 1C</b>
100-001	NA	Whole Tree Chipper	2010	60 TPH	N
100-005	NA	Chip Feeder Hopper	2010	27 TPH	N
100-020	EP-01	Chip Transfer Blower	2010	27 TPH	1C
<b>3S</b>	<b>EP-02</b>	<b>Chip Preparation</b>	<b>2010</b>	<b>27 TPH</b>	<b>High Eff. Cyclone 2C</b>
100-035	NA	Chip Grinding Belt w/magnet & Screen	2010	27 TPH	N
100-040	EP-02	Chip Grinder	2010	27 TPH	1C
<b>4S</b>	<b>EP-03</b>	<b>Drying System</b>	<b>2010</b>	<b>28.5 TPH</b>	<b>High Eff. Cyclone 3C</b>
110-005	NA	Dyer Chip Feeder	2010	27 TPH	N
120-045	NA	Burner Feed Surge Bin	2010	3 TPH	N
120-050	NA	Burner Feed Grinder	2010	3 TPH	N
120-055	NA	Burner Feed Blower	2010	3 TPH	N
110-015	EP-03	Dryer	2010	27 TPH	3C
110-050	NA	Abort Bunker Conv.	2010	14 TPH	N
110-045	NA	Bucket Elevator Conv.	2010	14 TPH	N
<b>5S</b>	<b>EP-07</b>	<b>Pre-pellet Sizing System</b>	<b>2010</b>	<b>15 TPH</b>	<b>High Eff. Cyclone 4C &amp; BH 7C</b>
120-005	N	Bucket Elevator	2010	14 TPH	N
120-015	N	Hammer Mill Surge Bin	2010	14 TPH	N
120-020	EP-07	Hammer Mill	2010	14 TPH	4C & 7C
120-040	N	Hammer Mill Transfer Blower	2010	14 TPH	N
<b>6S</b>	<b>EP-07</b>	<b>Pre-pellet Surge Bin</b>	<b>2010</b>	<b>1,000 ft<sup>3</sup></b>	<b>Baghouse 7C</b>
130-015	N	Pellet Mills Transfer Blower	2010	14 TPH	N
<b>7S</b>	<b>EP-05, EP-07</b>	<b>Pellet Mill #1</b>	<b>2010</b>	<b>4.5 TPH</b>	<b>High Eff. Cyclone 5C-A &amp; BH 7C</b>
<b>8S</b>	<b>EP-05, EP-07</b>	<b>Pellet Mill #2</b>	<b>2010</b>	<b>4.5 TPH</b>	<b>High Eff. Cyclone 5C-B &amp; BH 7C</b>

## 1.0 Emission Units

<b>9S</b>	<b>EP-05, EP-07</b>	<b>Pellet Mill #3</b>	<b>2010</b>	<b>4.5 TPH</b>	<b>High Eff. Cyclone 5C-C &amp; BH 7C</b>
<b>10S</b>	<b>EP-06, EP-07</b>	<b>Pellet Cooler System</b>	<b>2010</b>	<b>13.5 TPH</b>	<b>High Eff. Cyclone 6C &amp; BH 7C</b>
145-005	EP-06	Pellet Cooler	2010	14 TPH	6C
145-030	EP-07	Pellet Cooler Screen	2010	14 TPH	7C
145-035	N	Pellet Cooler Conv.	2010	14 TPH	N
150-005	N	Pellet Cooler Bucket Elev.	2010	14 TPH	N
<b>11S</b>	<b>None</b>	<b>Pellet Storage Silo #1</b>	<b>2010</b>	<b>32,570 ft<sup>3</sup></b>	<b>N</b>
<b>12S</b>	<b>None</b>	<b>Pellet Storage Silo #2</b>	<b>2010</b>	<b>32,570 ft<sup>3</sup></b>	<b>N</b>
150-025	N	Pellet Storage Silo Discharge Conv.	2010	14 TPH	N
<b>13S</b>	<b>EP-07</b>	<b>Pellet Packaging System</b>	<b>2010</b>	<b>24TPH</b>	<b>Baghouse 7C</b>
160-005	N	Packaging Bucket Elev.	2010	14 TPH	N
160-010	EP-07	Packaging Pellet Screen	2010	14 TPH	7C
160-015	N	Packaging Conveyor	2010	14TPH	N

## 2.0. General Conditions

### 2.1. Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45 CSR § 30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

### 2.2. Acronyms

<b>CAAA</b>	Clean Air Act Amendments		for Hazardous Air Pollutants
<b>CBI</b>	Confidential Business Information	<b>NO<sub>x</sub></b>	Nitrogen Oxides
<b>CEM</b>	Continuous Emission Monitor	<b>NSPS</b>	New Source Performance Standards
<b>CES</b>	Certified Emission Statement	<b>PM</b>	Particulate Matter
<b>C.F.R. or CFR</b>	Code of Federal Regulations	<b>PM<sub>2.5</sub></b>	Particulate Matter less than 2.5µm in diameter
<b>CO</b>	Carbon Monoxide		
<b>C.S.R. or CSR</b>	Codes of State Rules	<b>PM<sub>10</sub></b>	Particulate Matter less than 10µm in diameter
<b>DAQ</b>	Division of Air Quality		
<b>DEP</b>	Department of Environmental Protection	<b>Ppb</b>	Pounds per Batch
		<b>pph</b>	Pounds per Hour
<b>dscm</b>	Dry Standard Cubic Meter	<b>ppm</b>	Parts per Million
<b>FOIA</b>	Freedom of Information Act	<b>Ppmv or ppmv</b>	Parts per million by volume
<b>HAP</b>	Hazardous Air Pollutant	<b>PSD</b>	Prevention of Significant Deterioration
<b>HON</b>	Hazardous Organic NESHAP		
<b>HP</b>	Horsepower		
<b>lbs/hr</b>	Pounds per Hour	<b>psi</b>	Pounds per Square Inch
<b>LDAR</b>	Leak Detection and Repair	<b>SIC</b>	Standard Industrial Classification
<b>M</b>	Thousand		
<b>MACT</b>	Maximum Achievable Control Technology	<b>SIP</b>	State Implementation Plan
		<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>MDHI</b>	Maximum Design Heat Input	<b>TAP</b>	Toxic Air Pollutant
<b>MM</b>	Million	<b>TPY</b>	Tons per Year
<b>MMBtu/hr or mmbtu/hr</b>	Million British Thermal Units per Hour	<b>TRS</b>	Total Reduced Sulfur
<b>MMCF/hr or mmcf/hr</b>	Million Cubic Feet per Hour	<b>TSP</b>	Total Suspended Particulate
		<b>USEPA</b>	United States Environmental Protection Agency
<b>NA</b>	Not Applicable	<b>UTM</b>	Universal Transverse Mercator
<b>NAAQS</b>	National Ambient Air Quality Standards	<b>VEE</b>	Visual Emissions Evaluation
<b>NESHAPS</b>	National Emissions Standards	<b>VOC</b>	Volatile Organic Compounds

**VOL** Volatile Organic Liquids

**2.3. Authority**

This permit is issued in accordance with West Virginia Air Pollution Control Law W.Va. Code §§22-5-1 et seq. and the following Legislative Rules promulgated thereunder:

- 2.3.1. 45CSR13 – *Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation;*

**2.4. Term and Renewal**

- 2.4.1. This permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any applicable legislative rule.

**2.5. Duty to Comply**

- 2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-2850 and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to;  
**[45CSR§§13-5.11 and 13-10.3]**
- 2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA;
- 2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;
- 2.5.4. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses and/or approvals from other agencies; i.e., local, state and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

**2.6. Duty to Provide Information**

The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for administratively updating, modifying, revoking or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

## **2.7. Duty to Supplement and Correct Information**

Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

## **2.8. Administrative Update**

The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13.

**[45CSR§13-4]**

## **2.9. Permit Modification**

The permittee may request a minor modification to this permit as defined in and according to the procedures specified in 45CSR13.

**[45CSR§13-5.4.]**

## **2.10. Major Permit Modification**

The permittee may request a major modification as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate.

**[45CSR§13-5.1]**

## **2.11. Inspection and Entry**

The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
- d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

## **2.12. Emergency**



- 2.12.1. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
- 2.12.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of Section 2.12.3 are not met.
- 2.12.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
  - b. The permitted facility was at the time being properly operated;
  - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and,
  - d. The permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice must contain a detailed description of the emergency, any steps taken to mitigate emission, and corrective actions taken.
- 2.12.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- 2.12.5. The provisions of this section are in addition to any emergency or upset provision contained in any applicable requirement.

### **2.13. Need to Halt or Reduce Activity Not a Defense**

It shall not be a defense for a permittee in an enforcement action that it should have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

### **2.14. Suspension of Activities**

In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

**2.15. Property Rights**

This permit does not convey any property rights of any sort or any exclusive privilege.

**2.16. Severability**

The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

**2.17. Transferability**

This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13.  
**[45CSR§13-10.1]**

**2.18. Notification Requirements**

The permittee shall notify the Secretary, in writing, no later than thirty (30) calendar days after the actual startup of the operations authorized under this permit.

**2.19. Credible Evidence**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defense otherwise available to the permittee including, but not limited to, any challenge to the credible evidence rule in the context of any future proceeding.

### 3.0. Facility-Wide Requirements

#### 3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.  
[45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.  
[45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.  
[40CFR§61.145(b) and 45CSR§34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.  
[45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.  
[45CSR§13-10.5.]
- 3.1.6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45 C.S.R. 11.  
[45CSR§11-5.2.]

#### 3.2. Monitoring Requirements

*[Reserved]*

#### 3.3. Testing Requirements

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the

permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.
  - b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.
  - c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.
- [WV Code § 22-5-4(a)(15)]

### 3.4. Recordkeeping Requirements

- 3.4.1. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the

permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.

- 3.4.2. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.

**[45CSR§4. State-Enforceable only.]**

### 3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
- 3.5.2. **Confidential information.** A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
- 3.5.3. **Correspondence.** All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

**If to the DAQ:**

Director  
WVDEP  
Division of Air Quality  
601 57th Street, SE  
Charleston, WV 25304-2345

**If to the USEPA:**

Associate Director  
Office of Enforcement and Permits Review  
(3AP12)  
U. S. Environmental Protection Agency  
Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

3.5.4. **Operating Fee.**

- 3.5.4.1. In accordance with 45CSR22 – Air Quality Management Fee Program, the permittee shall not operate nor cause to operate the permitted facility or other associated facilities on the same or contiguous sites comprising the plant without first obtaining and having in current effect a Certificate to Operate (CTO). Such Certificate to Operate (CTO) shall be renewed annually, shall be maintained on the premises for which the certificate has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.
- 3.5.4.2. In accordance with 45CSR22 – Air Quality Management Fee Program, enclosed with this permit is an Application for a Certificate to Operate (CTO), from the date of initial startup through the following June 30. Said application and the appropriate fee shall be submitted to this office no later than 30 days prior to the date of initial startup. For any startup date other than July 1, the permittee shall pay a fee or prorated fee in accordance with Section 4.5 of 45CSR22. A copy of

this schedule may be found on the reverse side of the application for a Certificate to Operate (CTO).

- 3.5.5. **Emission inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

## 4.0. Source-Specific Requirements

### 4.1. Limitations and Standards

4.1.1. Emissions of criteria pollutants from the facility shall not exceed the following (note that compliance with all annual emission limitations in this permit shall be based on 12 month rolling totals):

Source	NO <sub>x</sub>		PM		PM <sub>10</sub>		SO <sub>2</sub>		VOC		CO	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
EP-01	--	--	0.01	0.01	0.01	0.01	--	--	--	--	--	--
EP-02	--	--	15.9	58.04	15.9	58.04	--	--	--	--	--	--
EP-03	8.80	32.12	8.80	32.12	8.0	29.2	1.00	3.65	0.68	2.48	24.00	87.6
EP-05	--	--	0.81	2.96	0.81	2.96	--	--	--	--	--	--
EP-06	--	--	0.01	0.04	0.01	0.04	--	--	--	--	--	--
EP-07	--	--	1.45	5.29	1.45	5.29	--	--	--	--	--	--
<b>Total</b>	8.80	32.12	26.98	98.46	26.18	95.54	1.00	3.65	0.68	2.48	24.0	87.6

4.1.2 Emissions of Hazardous Air Pollutants from the facility shall not exceed the following:

Source	Acrolein		Benzene		Formaldehyde		Styrene	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
EP-01	--	--	--	--	--	--	--	--
EP-02	--	--	--	--	--	--	--	--
EP-03	0.16	0.59	0.17	0.62	0.18	0.66	0.08	0.35
EP-05	--	--	--	--	--	--	--	--
EP-06	--	--	--	--	--	--	--	--
EP-07	--	--	--	--	--	--	--	--
<b>Total</b>	0.16	0.59	0.17	0.62	0.18	0.66	0.08	0.30

4.1.3 Total wood pellet production from the facility shall not exceed 98,550 tons per year.

4.1.4 Opacity from any process source operation shall not exceed 20% except for opacity which is less than 40% for a period or periods aggregating no more than 5 minutes in any 60 minute period.  
[45CSR§7-3.1 & 45CSR§7-3.2]

- 4.1.5 The dryer's (4S) in-stack SO<sub>2</sub> concentration shall not exceed 2,000 ppm by volume.  
[45CSR§10-4.1]
- 4.1.6 The dryer system (4S) shall not operate more than 7,300 hours per year. Compliance with this limit shall be based on a 12 month rolling total.
- 4.1.7 The three pellet mills combined shall not operate more than 21,900 hours per year. Compliance with this limit shall be based on a 12 month rolling total.
- 4.1.8 The following emissions groups shall be controlled with high efficiency cyclones: Chipping and Storage (2S), Chip Preparation (3S), Drying System (4S), Pre-pellet Sizing System (5S), Pellet Mills 1,2, and 3 (9S) and the Pellet Cooler System (10S).
- 4.1.9 The following emissions groups shall be controlled with a baghouse: Pre-pellet Sizing System (5S), Pre-pellet Surge Bin (6S), Pellet Mills 1,2, and 3 (7S, 8S and 9S) and the Pellet Cooler System (10S).
- 4.1.10 No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.  
[45CSR§7-5.1.]
- 4.1.11 The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.  
[45CSR§7-5.2.]
- 4.1.12. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.  
[45CSR§13-5.11.]



## **4.2. Testing Requirements**

- 4.2.1. The permittee shall perform monthly USEPA Method 22 Visible Emissions tests on emission points EP-02, EP-03 and EP-07. If any emissions are observed in accordance with the Method 22 testing the permittee shall, within 24 hours, perform a Method 9 test in accordance with 40 CFR Part 60, Appendix A. If six (6) consecutive monthly inspections reveal no visible emissions, then the observer shall take the readings semi-annually. If there are no emissions observed during two consecutive semi-annual inspections, then the readings shall be annual. If, at any time a visible emission is observed, the inspections shall revert back to monthly, until (6) consecutive monthly readings have no visible emissions observed

## **4.3. Monitoring and Recordkeeping Requirements**

- 4.3.1. **Record of Monitoring.** The permittee shall keep records of monitoring information that include the following:
- a. The date, place as defined in this permit and time of sampling or measurements;
  - b. The date(s) analyses were performed;
  - c. The company or entity that performed the analyses;
  - d. The analytical techniques or methods used;
  - e. The results of the analyses; and
  - f. The operating conditions existing at the time of sampling or measurement.
- 4.3.2. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.
- 4.3.3. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:
- a. The equipment involved.
  - b. Steps taken to minimize emissions during the event.
  - c. The duration of the event.
  - d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

- e. The cause of the malfunction.
  - f. Steps taken to correct the malfunction.
  - g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.
- 4.3.4. In order to demonstrate compliance with the requirements of 4.1.1 and 4.1.3 of this permit, the permittee shall monitor and record the amount of pellets produced at the facility on a monthly basis.
- 4.3.5. In order to demonstrate compliance with the requirements of 4.1.6 of this permit, the permittee shall monitor and record the total hours of operation of the dryer (4S) on a monthly basis.
- 4.3.6. In order to demonstrate compliance with the requirements of 4.1.7 of this permit, the permittee shall monitor and record the total hours of operation of each pellet mill on a monthly basis.
- 4.3.7. In order to demonstrate compliance with the requirements of 4.2.1 of this permit, records of the Method 22 testing and any necessary Method 9 testing shall be retained on site by the permittee for at least five (5) years. Upon request the records shall be certified and made available to the Director or his/her duly authorized representative.

#### **4.4. Reporting Requirements**

- 4.4.1. *[Reserved]*

### CERTIFICATION OF DATA ACCURACY

I, the undersigned, hereby certify that, based on information and belief formed after reasonable inquiry, all information contained in the attached \_\_\_\_\_, representing the period beginning \_\_\_\_\_ and ending \_\_\_\_\_, and any supporting documents appended hereto, is true, accurate, and complete.

Signature<sup>1</sup>

(please use blue ink)

\_\_\_\_\_  
Responsible Official or Authorized Representative

\_\_\_\_\_  
Date

Name and Title

(please print or type)

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title

Telephone No. \_\_\_\_\_

Fax No. \_\_\_\_\_

<sup>1</sup> This form shall be signed by a "Responsible Official." "Responsible Official" means one of the following:

- a. For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
  - (I) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), or
  - (ii) the delegation of authority to such representative is approved in advance by the Director;
- b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
- c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of USEPA); or
- d. The designated representative delegated with such authority and approved in advance by the Director.